

(SF-1878)

Conference on the Building of the Periodic
System of Mendeleev, by A. V. Lapitskiy,
4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Khim Nauk, No 9, 1961, pp 1719-1720.

JPRS 13886

197, 929

USSR
Pol
May 62

TT-62-28763

Akinow, V.M., Litvin, E.F. and others.
 TRANSFORMATIONS DE PHASES AU COURS DE LA
 PRÉPARATION DE CATALYSEURS À BASE DE NI-
 MgO PAR DÉCOMPOSITION D'OXALATES DANS UN
 COURANT D'HYDROGÈNE (O. Lazovskiy, P. Raz-
 chenniy, pri Poducheni Ni-MgO-Katalizatorov Raz-
 lozheniem Oksalato v 1-4 e Valeroda) (Phase
 Transformation in the Preparation of Ni-MgO Catal-
 ysts by the Decomposition of Oxalates in a Current
 of Hydrogen). 9p. (foreign text included) 4refs.
 CNRS-VII 98.
 Order from OTS, ETC or CNRS SL10 TT-62-28763

Trans. in French of "Akademiya Nauk SSSR,
 Otdelenie Khimicheskikh Nauk, Izvestiya, 1961,
 no.10, p.1802-1804.

DESCRIPTORS: *Nickel, *Catalysts, *Magnesium
 compounds, Oxides, Oxalates, Decomposition,
 Hydrogen, Phase studies.

(Chemistry--Physical, TT, v. 11, no. 8)

I. Akinow, V.M.
 II. Litvin, E.F.
 III. CNRS-VII 98
 IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
 European Translation Centre

Derivatives of Perfluodiacarbonic Acids, by
I. L. Knunyants, M. P. Krasuskaya.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, 1963, pp 190-192.

*FTD-TT-63-463

Sci - Chem
May 63

Synthesis of Cesium Ozonide Through Cesium
Superoxide, by I. I. Bol-nov, V. V. Matveyev, 9 pp.
RUSSIAN, per, Izvestiya Ak Nauk SSSR, Otdel
Khim Nauk, No 6, 1963, pp 1136-1139. 9692329
FTD-TT-64-194

Sci - Chem
May 64

257,649

Shcheglova, A. P., Bogdanova, O. K., and
Balandin, A. A.
CATALYTIC DEHYDROGENATION OF THE ISOMERIC
ISOPENTENES, PT. 2 DEHYDROGENATION OF
2-METHYL-1-BUTENE AND 3-METHYL-1-BUTENE.
[Jan 64] 7p
Order from ATS \$8.50 ATS-27Q73R

Trans. of #Akad[emiya] Nauk SSSR. Otd[elenie]
Khim[icheskikh] Nauk. Izv[estiya] 1963, no. 7,
p. 1210-1215.

DESCRIPTORS: *Pentenes, Molecular isomerism,
*Dehydrogenation, Catalysts, Methyl radicals,
*Butenes.

(Chemistry--Organic, TT, v. 11, no. 10)

TT-64-12375

- I. Title: 2-methyl
1-butene
- I. Shcheglova, A. P.
- II. Bogdanova, O. K.
- III. Balandin, A. A.
- IV. Title: Dehydrogenation...
- V. ATS-27Q73R
- VI. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Bogdanova, O. K., Shcheglova, A. P., and
Balandin, A. A.

CATALYTIC DEHYDROGENATION OF THE ISOMERIC
ISOPENTENES PT. 3. EFFECT OF STRUCTURE ON
THE CATALYTIC CONVERSION OF ISOPENTENES.

[Jan 64] 5p

Order from ATS \$8.50

ATS-28Q73R

Trans. of Akad[emiya] Nauk SSSR. Otd[elenie]
Khim[icheskiy] Nauk. Izv[estiya] 1963, no. 7,
p. 1215-1219.

DESCRIPTORS: *Pentenes, Molecular isomerism,
*Dehydrogenation, Catalysts, Molecular structure.

(See also ATS-27Q 73R)

(Chemistry--Organic, TT, v. 11, no. 10)

TT-64-12376

- I. Bogdanova, O. K.
- II. Shcheglova, A. P.
- III. Balandin, A. A.
- IV. ATS-28Q73R
- V. Associated Technical
Services, Inc., East
Orange, N. J.
- VI. Title: Effect . . .

Office of Technical Services

The Reaction of Propylene with Palladium Chloride
in Acetic Acid Solutions, by I. I. Moysayev.
RUSSIAN, per, Izv Ak Nauk SSSR, Otd Khim Nauk,
No 8, 1963, pp 1527-1528.
ATS RJ-5176

Sci-Chem
July 69

385,743

The Reactions of Nitrogen Atoms Communication 3. The
Rate Constant and the Mechanism of the Elementary
Reaction of Nitrogen Atoms With Acetylene, by
L. I. Avramenko, V. M. Krasnenkov, 10 pp.
RUSSIAN, per, Iz Ak Nauk, Otdel Khim Nauk, Ser
Khim, No 5, 1964, pp 822-825. 9220082
AEC-IS⁴Tr-12

Sci- Chem
Jul 65

282,641

Thermodynamics of Tungsten Carbides, by
V. I. Alekseev, L. A. Shvartsman.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Khim Nauk.
Metallurgiya i Chernoe Delo, No 1, 1963, pp 91, 961.

RISI 3321

Sci - Phys
Oct 63

345, 395—

(SF-1433).

Viktor Vladimirovich Vinogradov, by N. S. Pospelov,
16 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Literatury i
Yazyka, Vol XIV, 1955.

JPRS 4429

USSR

Biog

143,606

Mar 61

J-4986

(DC-2949).

Egyptian Literature at a New Stage, by A. F. Sultanov, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Literatur' / Yaz'ka, Vol XIV, No 1, 1955, pp 63-72.

JPRS-L-1791-D

NE/A - Egypt

Soc - Culture, Egyptian Literature

Jul 59

92,859

(00-5500/20)

Theoretical Problems of Linguistics, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Literatury
i Yazyka, Vol XVIII, No 3, May/Jun 1959,
pp 209-216.

JPRS 6236

Sci - Misc

Doc 50

134,162

(DC-3902/42)

Discussion of the Question of Structural Methods in
Linguistics and of Mathematical and Applied
Linguistics, by B. V. Gornung, 5 pp.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Literatury
i Yazyka, Vol XIX, No 1, Jan/Feb 1960, pp 60-62.

JPRS 6236

Sci - Misc

Dec 60

134,165

(00-3900/83)

Remarks on the "Introduction" (to "Theoretical
Problems of Linguistics"), by A. A. Chikobava,
17 pp.

Москва, изд. И. А. Каш: 1960, Литературный
и Языка, Vol. XXV, No 1, Jan/Feb 1960,
pp 63-71.

JPRS 6236

SRI - Linc

JPRS 60

134/63

(DC-3901/71)

Concerning the Problematic Report on "Theoretical
Problems of Linguistics", by S. K. Shamayko, 7 pp.

RUSSIAN, pos, In Ak Nauk SSSR, Otdel Literatury
I Yazyka, R Vol XIX, No 1, Jan/Feb 1960, pp 71-78.

JPRS 6236

Ref - 1250

Dec 60

194/194

(DC-3901/28)

Concerning Work on the Structural Analysis of
Language, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Literatury
i Yazyka, Vol XIX, No 1, Jan/Feb 1950,
pp 74-77.

JPRS 6236

Sci - Misc

Dec 60

134,158

(DC-6877)

THE 22ND CONGRESS OF THE CPSU AND THE TASKS
OF THE PHILOLOGICAL SCIENCES, BY V. V.
VINOGRADOV, 27 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL
LITERATURA I YAZYKA, VOL XXI, NO 1, JAN/FEB
1962, PP 3-13.

JPRS 14391

USSR
POL
JUL 62

202,303

62-20408

Smirnov, N. N.
CONCERNING THE DEVELOPMENT OF ENGLISH
NOUNS AFTER MIGRATIONS INTO NEW COUNTRIES
(EXEMPLIFIED BY THE NAMES OF AQUATIC
ANIMALS AND PLANTS). [1962] 10p. 18 refs.
Order from OTS or SLA \$1.10 62-20408

I. Smirnov, N. N.

Trans. of Akademiya Nauk SSSR. Otdelenie Literatury
i Yazyka. [Izvestiya], 1962, v. 21, no. 1, p. 34-40.

DESCRIPTORS: *English language, *Philology, Plants,
Aquatic animals, *Marine biology, Quantitative
analysis, Vocabulary.

A complete collection (4698 terms) was made of names
of aquatic plants and animals commonly used in various
English-speaking countries. A quantitative comparative
analysis of this category of English nouns showed that
development took place along similar lines in all the
(Social Sciences, TT, v. 9, no. 12) (over)

Office of Technical Services

(DC-3901)

URGENT PROBLEMS OF STRUCTURAL LINGUISTICS,
BY S. K. SHAUMYAN, 15 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL LITERA
I YAZYKA, VOL XXI, NO 2, MAR/APR 1962,
PP 103-111.

JPRS 14252

SCI - MISC
MACHINE TRANSLATION

201,936

On the Rate of Fall of Solid Particles in a
Vibrating Viscous Medium, by G. D. Krasnov
and Yu. E. Mayevskiy,
RUSSIAN, per, Izv. AN SSSR OTN Metallurg. i
Gorn. Delo, 1964, No 5, pp 179-184.
NLL 9022.84E 1966 (1293)

Sci-Chem
Apr 67

322,794

Propagation of Disturbances in Nonhomogeneous
Isotropic Media, by V. Ignatovskiy, 54 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat
i Estvennykh Nauk, Vol V, No 7, 1932,
pp 857-905.

Air Res and
Dev Command

Scientific - Physics

13,615
CTS/DEX

Wave Propagation and Refraction in Nonhomo-
geneous Isotropic Media, by V. Ignatovskiy,
16 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat
i Estvennykh Nauk, Vol V, No 8, 1932,
pp 1203-1218.

*Amst. Math. Soc.
1932*

Air Res and
Dev Command

Scientific - Physics

CTS/DEX

13,616

Problem of the Torsion of a Circular Cylinder
Reinforced with a Longitudinal Circular Rod,
by A. K. Rukhadze, I. W. Vekua,

RUSSIAN, per, Iz Ak Nauk, VII Seriya. Otdel
Matemat i Estestvennykh Nauk, No 3, 1933,
pp 373-386.

Sci Tr Center
RSM T.456

18,940

Scientific - Mathematics

Vernal and Hiemal Races Among Anadromous Fishes,
by L. S. Berg.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat i
Estestvennykh Nauk, No 5, 1934, pp 711-732.

Dept of Interior
QH301, C273, No 206

Sci - Biol
Sep 60

127,961

The Interaction of Genes Affecting the Wing in
Drosophila Melanogaster, by N. V. Dubovsky.

14A
RUSSIAN, per, Izvest Ak Nauk SSSR, Otdel Mat Est,
Nauk, VII series, 1935, pp 1163-1168.

*PL 480
NLM

Mar 61

Description of a New Species *Pothragonus Occidentalis*
(Agonidae, Pisces) From the Sea of Japan, by
G. U. Lindberg.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat i
Yestestvennykh Nauk, No 8/9, 1935, pp 1223-1227.

Ichthyological Laboratory
U.S. National Museum,
Washington, D. C.

Sci - Biol
Feb 63

122,572

The Extension of Schreinemakers' Method to
Multicomponent Systems, by P. Perel'man, 11 pp.
UNCLASSIFIED

RUSSIAN, per, Iz Ak Nauk, Otdel Mat i Estestv.
No 2, 1936, 379-385.

AEC Tr 1914

Scientific - Mathematics

15,135

Polymerization of Butadiene in Emulsions.
U.S. Patent 2,714,444, 1955, 1956,
by K. Baranov, A. Dobromyslova, E.
Dobromyslov, Leningrad.
RUSSIAN, per, Akademiya Nauk SSSR.
Otdeleniye Matematicheskikh i Estest-
vennykh Nauk. Izvestiya, 1956, pp
408-422.
SLA TT-61-18066

NLL Ref: 3630-48 (DTC-108)

333, 801

Sci
Jul 67

Zelinskii, N. D., Musaev, I. A., and
Il'pern, G. D.
ANALYSIS OF KOSS-CHAGYL OIL (EMBA).
COMMUNICATION 2. CATALYTIC DEHYDROGENA-
TION OF NARROW GASOLINE-KEROSENE FRACTI-
ONS. 15p. MTW1: 277.
Order from OLS or EIC \$1.85 61-17902

Trans. of Akademiya Nauk SSSR, Otdelenie Matemati-
cheskikh i Estestvennykh Nauk, Izvestiya, Seriya
Khimicheskaya, 1957, p. 467-478.

DESCRIPTORS: Gasoline, Kerosene, Dehydrogena-
tion, Platinum, Catalyst.

61-17902

I. Zelinskii, N. D.
II. Musaev, I. A.
III. Il'pern, G. D.
IV. MTW1-277
V. Stichting Moedijk
Tegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Kazanskiĭ, B.A. and Smirnova, N.V.
HYDROGENATION OF AROMATIC HYDROCARBONS
BY MEANS OF CALCIUM-AMMONIA. 11 p. 10 refs.
MTWL: 608.
Order from OTS or ETC \$1.55 61-17247

Trans. of Akademiya Nauk SSSR, Otdelenie Matematicheskikh i Estestvennykh Nauk (Izvestiya) 1937, p. 547-554.

DESCRIPTORS: *Benzenes, Hydrocarbons, Calcium, Ammonia, *Hydrogenation.

61-17247

- I. Kazanskiĭ, B.A.
- II. Smirnova, N.V.
- III. MTWL-608
- IV. Stichting Moelijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

Equilibrium Diagram for the System Aluminium-Lithium, by F. I. Shamrai, P. Ya. Sal'dau.

RUSSIAN, per, Iz Ak Nauk Otdel Mate^{mt} 1/est^{est}
Nauk, 1937, pp 631-640.

Fulmer Research Inst, Ltd.

Tr 65 OT/1721

Sci Mus Lib- 66/0587

Sci - Minerals/Metals, Physics

Jun 1956

36, 3/2

Experimental Study of Surface Solvation in
Developing a Mathematical Theory of Stable
Lyophilic Colloids, by B. Deryagin, M. Kusakov,
52 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Matemat
i Yestestvennikh Nauk, 1937, pp 1119-1150.
9683134

FTD-TT-62-1564

232,446

Sci-Phys
Jun 63

On the Theory of Passivity and the Corrosion of
Metals, by P. D. Dankov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat i
Estest Nauk, 1938, pp 1249-1254.

Sci Trans Center
RT-2372

Scientific - Chemistry
Min/Metals

26,735
Sep 55 CTS/DEX

Oxide Films on Metals. I., by P. D. Dankov, N. A. Shishakov, 31 pp.

RUSSIAN, ^{tek} ~~sk~~, Izvestia Akademii Nauk SSSR. Otdelente
Matematicheskikh i Estestvennykh Nauk, 1938,
pp 1225-1248.

Sci Tr Center RT-2576

USSR
Scientific - Chemistry

28,267

Nov 55
CTS/DEX

Serological Investigations in Connection with
Distant Hybridisation, by I. I. Sokolovskaya.
RUSSIAN, per, Izvestiya Akad,nauk SSSR Otd, mat.
nauk, 1938, pp 947-956.
NLL Ref: RTS 4043

Sci/B & M
Feb 68

349,652

Dubovsky, N. V.

The Interaction of Genes Affecting the Wing in
Erosophila Melanogaster.

RUSSIAN, per, Iz. Ak Nauk SSSR. Otdel Matem i yestest
Nauk, Ser Bisl, 1935, pp. 1163-1168.

*PL 480
OTS 61-31007

Nov 61

Belgovsky, M. L.

Dependence of the Frequency of Minute Chromosome
Rearrangement in D.m. Upon X-Ray Dosage.

RUSSIAN, per, Iz. Ak. Nauk SSSR, Ser. biol., II, 1939,
pp. 159-170.

*PL 480
OTS 61-11484

Nov 61

Prokofyeva-Belgovskaya, A. A.

Cytological Study of the Breaks at the White Locus of
the X-Chromosome of D.m.

RUSSIAN, per, Izv. Ak Nauk SSSR. Otd. Mat. Ser. biol.,
Vol. II, 1939, pp. 215-227.

*PL 480

OTS 61-11483

Nov 61

Prokofyeva-Belgovskaya, A. A.

Cytological Study of the "Simple Breaks" in the
Inert Region of the Scute 8 Chromosome of D.m.

RUSSIAN, PER, Iz. Ak. Nauk SSSR, Otd. Mat., Ser. biol.
1939. pp. 349-361.

*PL 480
OTS 61-11482

Nov 61

Prokofyeva-Belgovshaya, A. A.

Inert Regions in the Inner Part of the X- Chromosome
D.m.

RUSSIAN, per, Iz. Ak. Nauk SSSR Otd. mat. Ser. biol.,
Vol. II, 1939, pp. 362-370.

*PL 480
OTS 61-11481

Nov 61

Cytological Study of the Breaks at the White Locus
of the X-Chromosome of D. m., by A. A. Prokofyeva-
Belgovskaya.

RUSSIAN, per, Izvestiya Ak Nauk SSSR, Otd Nat - nat,
Ser Biol, NIKK No 2, 1939, pp 215-227.

*PL 480
NLM

Mar 61

Geological Results of Gravimetric Surveys in Central
Asia and Southwestern Kazakhstan, by A. D.
Arkhangel'skiy, T. V. Fedynskiy.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat i
Vestest Nauk, Ser Geolog, No 1, 1936, pp 3-33.

ACIC

Sci - Geophys

215,896

Oct 62

Selection of a Suitable Reduction of Gravity for the
solution of Geological Problems, by Ye. N. Lyustikh.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Matemat i Yestest
Nauk, Ser Geolog, No 4, 1938, pp 659-666.

ACIC

Sci - Geophys

Int 62

218,897

Functions in Normed Closed Algebraic Fields,
by L. G. Shnirel'man.

RUSSIAN, per, Iz Ak Nauk Otdel Matemat i Yestestv
Nauk Seriya Matemat, No 5-6, 1938, pp 487-498.

*Navy/APL 277

Sci - Math & Data Process
Sep 63

Electron-Microscope Investigation of the
Initial Stages of Fatigue Breakdown, by
V.A. Ivanova.
RUSSIAN, per Izv. Akad. Nauk. SSSR Otd.
Metall. Gorn. Delo, No. 6, 1964, pp 125-128
NLL/9022.03 1965 (3737)

Sci -
Aug 67

337-481

Methods and Special Features of Introducing Ultrasonic
Vibrations into Liquid Metals, by I. I. Teumin.
RUSSIAN, per, Izvest. Akad. Nauk SSSR, OTN,
Metallurgiya i Toplivo, No 1, Jan-Feb. 1961, pp 24-30.
HB 6371

Sci/M&M
Apr 65

277,099

Evaluation of Fatigue Resistance of Large
Sized Construction Details From the
Results of Tests of Model Samples, by R. D. Vaganov
L. A. Khripina, O. I. ~~SHISHORINA~~ Shishorina,
14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk.

SLA 60-17372

Sci
Vol IV, No 7
Apr 62

193,880
[Signature]

Theories of plastic deformations by Applied Mathematics Group, Brown University

U.S. Navy Dept David W. Taylor Model Basin
Providence R.I. REB-14 1946 29p illus

Trans. from Izvestiia Akademii Nauk SSR Otdelenie
Tekhnicheskikh Nauk 1937 no1, p49-70

EIF 52,707

669.1-T
General
53-T

Sulphoaluminate of Calcium ("cement bacilli") its
Conditions of Formation and Existence, by B. G.
Skramtayev, V. M. Moskvina, 30 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 1, 1937, pp 125-149.

28,990

Sci Tr Center
RT-865 2365

Scientific - Chemistry

Dec 55 CTS/DEX

Tricalcium Phosphate and its Thermal Properties,
by E. V. Britzke and V. K. Veselovskiy, 14
pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, No 4, 1937, pp 479-488.

SLA R-2578

Sci

72, 728

Aug 58

Stresses and Strains in Thick-Walled Cylinders in the Elastic-Plastic State, by N. M. Belyaev, A. K. Sinitskiy, 88 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 2, 1938, pp 3-54.

Sci Trans Center RT-360

10,885

Scientific - Physics
GTS/DEX

Porai-Koshits, B. A. and Efros, A. M.
INVESTIGATION IN THE FIELD OF FLUORENE. I.
CONDENSATION OF 2,7-DIAMINOFLUORENE WITH
PHTHALIC ANHYDRIDE (EXPERIMENTAL PART)
Z. [D.] Knowles, tr. 15 Nov 50, 19p
Order from OTS, SLA, or ETC \$1.60 TT-61-28208

Partial trans. (p. 51-53) of Akad[emiya] Nauk SSSR.
Otdel[enie] Tekhnich[eskikh] Nauk. [Izvestiya] 1938,
no. 3, p. 43-60.

DESCRIPTORS: *Phthalic anhydride, Condensation
reactions, *Amines, *Fluorenes, Chemical analysis.

(Chemistry--Organic, TT, v. 11, no. 5)

TT-61-28108

- I. Porai-Koshits, B. A.
- II. Efros, A. M.
- III. Title: Condensation...
- IV. National Institutes
of Health,
Bethesda, Md.

Office of Technical Services

Stresses and Strains in Thick-Walled Cylinders in
the Elastic-Plastic State With Allowance for Strain-
Hardening, by N. M. Belyaev, A. K. Sinitskiy, 40 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 4,
1938, pp 21-49.

Sci Trans Center RT-293

Scientific - Physics
CTS/DEX

10,886

Surface Oxidation of Metals in the Surrounding Air,
E. N. Krylova. UNCLASSIFIED

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk, No 10,
1988, pp 89-112. —————

Navy Tr 1063/NRL 493

Scientific - Min/Metals

18,846

BT-1816

Lukyanov, V. S.
HYDRAULIC APPARATUS FOR ENGINEERING
COMPUTATIONS, tr. by Dmitry Vergun. Permafrost
Investigations, 1955. Jun 55 [32p] ACPEL Trans. 26.
Order from OTS, SLA, or ETC TT-63-15696

Trans. of Akademiya Nauk SSSR, Otdelenie Tekhnicheskikh Nauk, Izvestiya, 1939, no. 2, p. 53-67.

DESCRIPTORS: *Analog computers, *Hydraulic models, Temperature, Concrete, Permafrost, Soil mechanics, Differential equations, Civil engineering.

(Engineering--Civil, TT, v. 11, no. 5)

TT-63-15696

- I. Lukyanov, V. S.
- II. Title: Permafrost ...
- III. ACPEL Trans-26
- IV. Arctic Construction and Frost Effects Lab., Corps of Engineers, Waltham, Mass.

Office of Technical Services

Prandtl's Two-Dimensional Theory of Plasticity and
the Theory of Earth Pressure, by V. V. Sokolovskiy,
35 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 2,
1939, pp 107-128.

Sci Trans Center RT-297

Scientific - Physics
CTS/DEX

10,911

TT-61-16978

Berents, L. I. and Glushnev, V. E.
VAPOR PHASE OXIDIZING CRACKING OF OIL
PRODUCTS. 19p 17refs.

Order from OTS, SLA, or ETC \$1.60 TT-61-16978

Trans. of ~~Akademiya Nauk SSSR, Otdelenie~~
~~Tekhnicheskikh Nauk (Izvestiya)~~ 1939, no. 3, p
85-109.

I Berents, L. I.
II. Glushnev, V. E.

(Materials-Fuels, TT, v. 12, no. 4)

Office of Technical Services

The Two-Dimensional Problem of the Steady Oscillations
of Bodies Under the Free Surface of a Heavy Incom-
pressible Liquid, by N. E. Kochin, 41 pp.

RUSSIAN, no per, Iz Ak Nauk, Otdel Tekh Nauk, No 4,
1939, pp 37-62.

Sci Mus Lib No 56/3064

Sci - Physics

44, 032

Precise Measurements for the Determination of the Strength
of Coke Materials, by K. I. ~~Sliskov~~ ^{Sliskov}

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 2,
1940, 11/41 42

*BISI 2398

Sci - Engr

CRL/T. 876

Sep 61

list 110

Volarovich, M. P.
EFFECT OF PRESSURE UP TO 1000 KILOGRAMS
PER SQUARE CENTIMETER ON THE VISCOSITY OF
HIGHLY VISCOUS LIQUIDS SUCH AS LUBRICATING
OILS. [1961] 7p. 14 refs.
Order from OTS or SLA \$1.10

61-16956

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1940, no. 3, p. 27-34.

DESCRIPTORS: *Lubrication, *Oils, *Viscosity,
Liquids, Pressure, Temperature, Test equipment.

A special apparatus for examination of the viscosity of liquids or molten solids at elevated pressures and temperatures is described. With the aid of this apparatus, automobile oils, cylinder oil, aviation oil, machine oil, a residual oil, rosin and two sugar solutions in glycerin were tested. The viscosity of the lubricating oils was found to greatly increase with rise of the
(Materials--Fuels, TT, v. 6, no. 9) (over)

61-16956

I. Volarovich, M. P.

185413

Office of Technical Services

Relation Between the Laws of the Distribution
of Crystals by Dispersion and the Kinetics of
Crystallization, by S. Z. Roginskii, O. M. Todes.
RUSSIAN, per, Izv. AN SSSR OTN, No 3, 1940,
pp 331-348.
NLL 5828.4F (11775)

Sci - Chem
Sept. 67

340,360

Kusakov, M. M. and Zinchenko, K. E.

PHYSICAL CHEMISTRY OF SURFACE PHENOMENA
IN OIL TECHNOLOGY. II. MOLECULAR SURFACE
PROPERTIES OF OILS. [1961] 10 p. 19 refs.

Order from OTS or SLA \$1.10

61-16832

Trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1940, no. 4, p. 19-28.

DESCRIPTORS: *Oils, USSR, Physical chemistry,
Molecules, Surface properties, *Petroleum industry,
Recovery.

The surface tension of ten crude oils from the most
important Soviet fields and of their solutions in non-
polar medicinal oil and non-polar gasoline at the inter-
face with water were determined as a part of an in-
vestigation of molecular surface characteristics of
crude oils. The surface tension of aqueous and aqueous-
alkali extracts of these oils at the boundary with air
were also determined. These measurements revealed
(Chemistry--Physical, TT, V. 6, no. 6) (over)

61-16832

I. Kusakov, M. M.
II. Zinchenko, K. E.
III. Title: Molecular...

176587

Office of Technical Services

Gerasimov, M. M. and Glushnev, V. E.
CRACKING OF GDOV SHALE TAR. [1961] 6p.
Order from OTS or SLA \$1.10 61-16890

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1940, no. 4, p. 29-35.

DESCRIPTORS: *Coal tar, *Hydrocarbons, Decomposition, Gasoline, Shales.

A steam distilled fraction of shale tar boiling at 200-360°C. and amounting to 60% by weight on the tar was cracked in the vapor and in the liquid phase. Up to 25% gasoline was obtained in the vapor phase at the optimal cracking temperature of 575-600°. At 550°, a pressure distillate was obtained of a lighter fractional composition, but its degree of unsaturation was higher. The vapor phase cracked gases contain up to 40% unsaturated compounds. Liquid phase cracking under 11-75 atmospheres pressure at 375-425°C. gave up to 26.4% gasoline of an inferior quality in comparison (Engineering--Chemical, TT, v. 6, no. 5) (over)

61-16890

1. Gerasimov, M. M.
11. Glushnev, V. E.

180526

Office of Technical Services

Mathematical Analysis and Determination of the
Strength of Lump Material, by K. I. Syskov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 2, 1940, pp 41-48.

BI81 2398

Sci - Engr

204, 676

Jul 62

list 140

(FDD 25094)

Two-Dimensional Problem of the Motion of a Wing
Under the Surface of a Heavy Liquid of Finite Depth,
by A. I. Tikhonov, 34 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 4, Moscow/Leningrad, 1940, pp 57-78.

CIA/FDD/U-7468

USSR

Sci - Physics, aerodynamics

OTS Nov 55

29,855

Kusakov, M., Prokof'eva, E., and Faingluz, E.
PHYSICAL CHEMISTRY OF SURFACE PHENOMENA
IN OIL TECHNOLOGY. III. WASHING OFF UKHTA
OIL FROM THE NATURAL ROCKS. [1961] 11p.
3 refs.

Order from OTS or SLA \$1.60

61-16831

Trans. of Akadem[ia] Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1940, no. 5, p. 49-58.

DESCRIPTORS: *Oils, Recovery, USSR, *Petroleum
Industry, Wetting agents, Surface properties, Rock,
Physical chemistry.

The most production of oil from the Ukhta field can be
obtained by washing off the oil with weak solutions of
alkali, such as soda, sodium hydroxide or potassium
hydroxide. Measuring the surface tension of the aqueous
alkali extracts revealed that there is no reason to fear
that the Ukhta oil will be leached out by the alkaline
(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-16831

I. Kusakov, M.
II. Prokof'eva, E.
III. Faingluz, E.
IV. Title: Washing...

176586

Office of Technical Services

The Theory of Hydrodynamic Gliding, by
L. Grotensky, 27 pp.

RUSSIAN, 1941. 22. Air Force, Obol'skiy House,
No 7, 1940.

5
1941/1942 1943

Scientific - Engineering
Office

5814

Berents, L. I.

THE CHARACTER OF DECOMPOSITION OF MIXTURES OF OCTANE AND ISOCTANE. [1961] 5p.

7 refs.

Order from OTS or SLA \$1.10

61-16885

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. (Izvestiya, 1940, no. 8, p. 47-50.

DESCRIPTORS: *Hydrocarbons, Decomposition, *Octanes.

Cracking of mixtures of pure normal octane and 2, 2, 4-trimethylpentane in a quartz coil at 580° C. and 1-1.3 second reaction period was investigated in an attempt to determine the mechanism of the reaction. The results indicate that the reaction is not unimolecular. The curve for the dependence of the rate of cracking upon the composition of the mixture possesses a maximum revealing a mutual effect of the two hydrocarbons in their thermal conversion. (Author)

(Chemistry--Organic, TT, v. 6, no. 5)

61-16885

I. Berents, L. I.

180513

Office of Technical Services